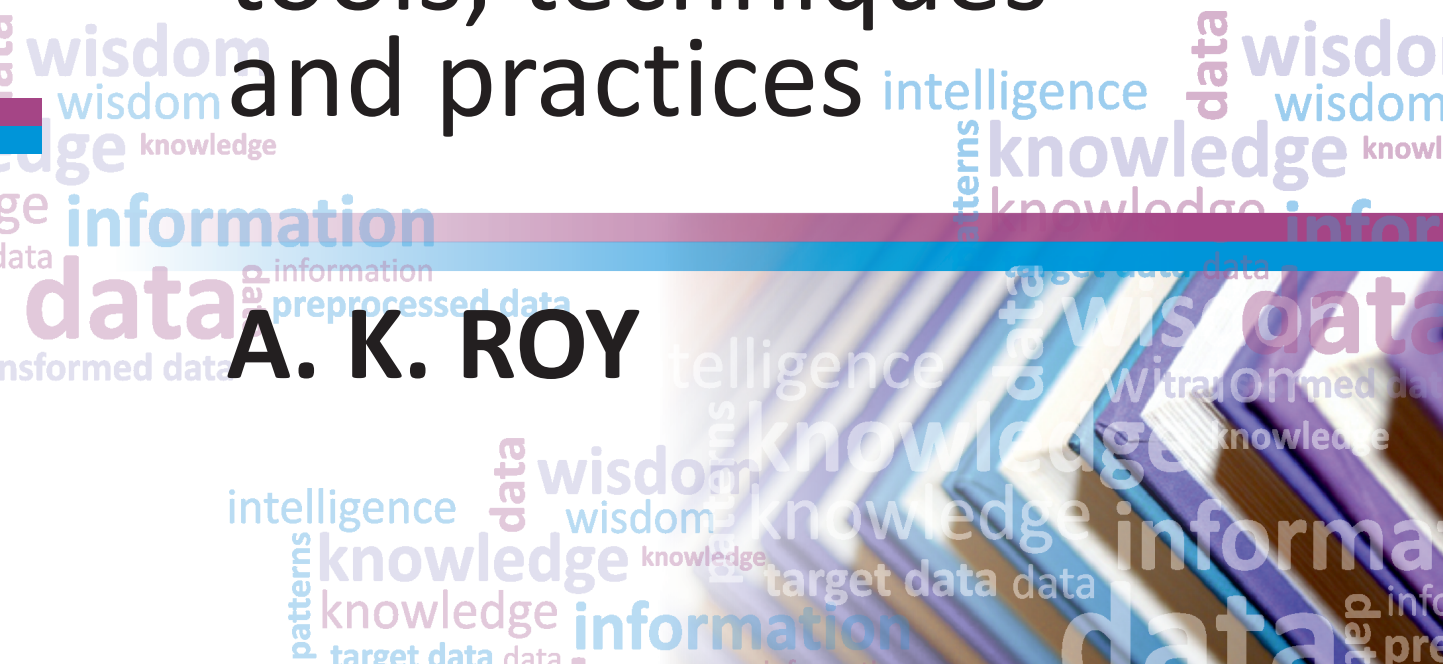




information and knowledge management

tools, techniques
and practices



A. K. ROY

Information and Knowledge Management Tools, Techniques and Practices

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Readership: *useful for researchers, scientists, and other related in the field of bioinformatics, statistics, knowledge management, database development and management, Geospatial, machine learning and above all it is expected the content and coverage of the book will be useful for a wide range of knowledge practitioners, researchers, managers, policy planners and many others trying to enter for the first time to the emerging area of KM.*

Knowledge Management is the process by which an organization identifies, creates, manages and delivers information to enhance workforce performance. KM is a discipline that promotes an integrated approach to identifying, capturing, evaluating, retrieving, and sharing all of an enterprise's information assets. These assets may include databases, documents, policies, procedures, and previously un-captured expertise and experience in individual workers. All these issues are covered in thirty three chapters in the book broadly divided into the following five sections

- Fundamentals of Knowledge Management
- Latest Tools and Techniques for Knowledge Management
- Databases, Data mining, Knowledge Discovery in Biotechnology and Bioinformatics
- Data mining and Knowledge Discovery in Agriculture and Allied Fields
- Indigenous Knowledge Protection and IPR Issues.

The book contains original research and case studies by academic and research contributors on strategies, tools, techniques and technologies for Knowledge Management. The focus of this book is on the identification of innovative KM strategies and the application of theoretical concepts to real-world situations. This first chapter serves as a complete introduction to the concepts and principles of KM, starting with basics of data, information, knowledge and wisdom. Clarified differences among Explicit, Implicit and Tacit Knowledge. The book also covers traditional KM approaches as well as emerging topics such as cloud computing, Semantic Web, Rough Computing, Fuzzy logic, Artificial intelligence, Machine learning, social networks, Tools and Techniques for Geo Spatial Data Knowledge Discovery. The focus of the book is on how KM impacts organizations and individuals and steps that should be taken to maximize benefits, including directions for how to select, develop, and evaluate KM systems.

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